

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 - 146 (canceled)

Claim 147. (currently amended) A method for treating a mammalian patient who has a defect in the wall of a blood vessel that has a true lumen and a wall, said method comprising the steps of:

A. providing a system that comprises; i) a delivery catheter; ii) an intravascular member that assumes a collapsed configuration when positioned within the delivery catheter and an expanded configuration when advanced out of the delivery catheter that has a collapsed configuration wherein it is positionable within the delivery catheter and an expanded configuration a it is generally tubular in configuration and defines a hollow flow channel therethrough, and iii) an advancer for advancing the intravascular member out of the delivery catheter,

said intravascular member being connected to the advancer by way of a releasable connection, said releasable connection being volitionally releasable without requiring rotation of the advancer;

said intravascular member being in the form of an elongate strand when in its collapsed configuration; and

said elongate strand assuming a generally tubular shape having a hollow flow channel therethrough when the intravascular member is in its expanded configuration;

B. positioning the delivery catheter within the true lumen of the blood vessel near the defect;

C. using the advancer apparatus to advance the intravascular member out of the delivery catheter and causing the intravascular member to transition to its expanded configuration within the true lumen of the blood vessel, adjacent to the defect, such that, i) the intravascular member engages the wall of the blood vessel so as to be held in substantially fixed position within the true lumen of the blood vessel, ii) no substantial portion of the intravascular member extends into the defect and iii) blood flowing through the true lumen of the blood vessel lumen passes through the flow channel of the intravascular member; and,

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D. releasing the releasable connection and removing the delivery catheter, thereby leaving the expanded intravascular member implanted within the true lumen of the blood vessel adjacent to the defect;

E. providing an embolus member sized to fit within the vessel wall defect; and,

F. positioning the embolus member within the vessel wall defect such that the intravascular member retains the embolus member within the vessel wall defect.

Claim 148 (previously presented) A method according to Claim 147 wherein the performance of Steps B and C comprises:

placing a first catheter at a first position within the patient's vasculature;

advancing a second catheter through the lumen of the first catheter and to a second position within the patient's vasculature;

advancing the delivery catheter through the lumen of the second catheter to a third position within the true lumen of the blood vessel, adjacent to the vessel wall defect; and

while the first, second and third catheters are in their respective first, second and third positions, advancing the intravascular member out of the lumen of the third catheter such that the intravascular member assumes its expanded configuration within the true lumen of the blood vessel.

Claim 149 (canceled)

Claim 150 (currently amended) A method according to Claim 149 147 wherein Step F is performed after Step C.

Claim 151 (currently amended) A method according to Claim 149 147 wherein Step F is performed before Step C.

Claim 152 (currently amended) A method according to Claim 149 147 wherein Step F comprises:

- i positioning a delivery catheter having a distal end within the intravascular member after completion of Step C;

- ii causing the distal end of the delivery catheter to advance through a portion of the intravascular member and into the vessel wall defect;
- iii delivering the embolus member out of the distal end of the delivery catheter and into the vessel wall defect; and,
- iv removing the delivery catheter, leaving the embolus member within the vessel wall defect with the intravascular member preventing the embolus member from escaping from the vessel wall defect into the lumen of the blood vessel.

Claim 153 (currently amended) A method according to Claim ~~152~~ 147 wherein the vessel wall defect is an aneurysm and wherein Step F comprises positioning the embolus member within the interior of the aneurysm and outside of the true lumen of the blood vessel.

Claim 154 (currently amended) A method according to Claim ~~152~~ 147 wherein the aneurysm is a wide mouthed aneurysm and wherein Step F comprises delivering the embolus member through the mouth of the aneurysm and into the aneurysm sac.

Claim 155 (currently amended) A method according to Claim ~~152~~ 147 wherein at least a portion of the embolic member delivered in Step F is thrombogenic.

Claim 156 (currently amended) A system for treating an aneurysm or other defect in the wall ~~implantation of an intravascular member within the true lumen~~ of a blood vessel that has a wall and a true lumen through which blood normally flows, said system comprising:

an elongate, flexible delivery catheter having a lumen extending longitudinally therethrough and a distal end opening, said delivery catheter being advanceable in to the true lumen of a blood vessel ~~wherein the intravascular member is to be implanted;~~

an intravascular member that has a collapsed configuration wherein it is in the form of an elongate strand member that is positionable within the delivery catheter and an expanded configuration wherein it is the elongate strand member assumes a generally tubular shape that in configuration ~~and~~ defines a hollow flow channel therethrough, and

an advancer for advancing the intravascular member out of the delivery catheter, said intravascular member being connected to the advancer by way of a releasable connection,

said releasable connection being volitionally releasable without requiring rotation of the  
advancer, and

an embolic member that is implantable within the aneurysm or other defect in the wall of  
the blood vessel;

said advancer being useable to advance the intravascular member out of the distal end  
opening of the delivery catheter such that the intravascular member expands to its expanded  
configuration within the true lumen of the blood vessel in an orientation that is substantially  
coaxial with the advancer and such that blood flowing through the blood vessel lumen will flow  
through the flow channel of the intravascular member, while the intravascular member remains  
connected to the advancer apparatus by way of said releasable connection;

said releasable connection being thereafter volitionally severable such that the delivery  
catheter and advancer apparatus may be removed from the blood vessel lumen leaving the  
expanded intravascular member implanted in said blood vessel lumen;

said embolic member being implantable within the aneurysm or other defect such that  
the intravascular member prevents the embolic member from escaping from the aneurysm or  
other defect and into the true lumen of the blood vessel.

Claim 157 (canceled)

Claim 158 (currently amended) A system according to Claim 157 wherein the elongate strand  
member forms [[a]] at least one helix when in said expanded configuration.

Claim 159 (previously presented) A system according to Claim 156 further comprising  
apparatus for releasing the releasable connection.

Claim 160 (canceled)

Claim 161 (canceled)

Claim 162 (currently amended) A system according to Claim 156 wherein the releasable  
connection is releasable in response to an electrical current ~~and wherein the apparatus for  
releasing the releasable connection comprises apparatus for delivering electrical current.~~

Claim 163 (new) A method according to Claim 147 wherein, after the intravascular  
member has been advanced out of the catheter and deployed in its expanded configuration, the

intravascular member is retractable back to its collapsed configuration within the catheter until such time as the releasable connection has been volitionally released.

Claim 164 (new) A method according to Claim 163 further comprising the step of:  
after the intravascular member has been advanced out of the catheter and deployed in its expanded configuration but before volitionally releasing the releasable connection, retracting the intravascular member back to its collapsed configuration within the catheter.

Claim 165 (new) A system according to Claim 156 wherein, after the intravascular member has been advanced out of the catheter and deployed in its expanded configuration, the intravascular member is retractable back to its collapsed configuration within the catheter until such time as the releasable connection has been volitionally released.

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